

<sup>66</sup>Power Behind

# GREEN POWER

### **NHPC** Limited

(A Government of India Navratna Enterprise)





NHPC Limited was established in 1975. NHPC is a Government of India 'NAVRATNA' Enterprise.

With an authorized share capital of ₹15000 crore and total investment base of ₹81658.07 crore (as on 30.09.2024), NHPC is ranked as a premier organization in India for development of hydropower.

The technical and engineering proficiency and experience of NHPC places it in a leading position in the field of hydropower development in India and neighbouring countries.

#### **FOOTPRINTS OF NHPC**



- OPERATING POWER STATIONS
- PROJECTS COMPLETED ON DEPOSIT/TURNKEY BASIS
- PROJECT UNDER CONSTRUCTION
- PROJECTS UNDER SURVEY & INVESTIGATION
- PROJECTS UNDER CLEARANCES / APPROVAL
- NEW INITIATIVES BY NHPC

#### **NHPC - AN OVERVIEW**

Year of Establishment	1975
Authorized Share Capital	₹15000 crore
Power Stations in Operation	<b>28 (7232.90 MW)#</b> 22 (5551.2 MW) - NHPC 6 (1681.70 MW) - In Joint Ventures
Power Stations Commissioned on Deposit/Turnkey Basis - Completed outside India - Completed within India	5 (70.35 MW) 2 (74.10 MW) 3 (15.25 MW)
Projects under Construction	15 (10604 MW)
Projects under Survey and Investigation	9 (9255 MW)
Projects under Clearances / Approval	10 (4491 MW)
New Initiatives by NHPC	11 (22854 MW)

#### **POWER STATIONS IN OPERATION**

Downey Chatian	UT / Ct-t-	Capacity (MW)		
Power Station	UT/ State	Own Project	in JV	
Baira Siul	H.P.	180		
Loktak	Manipur	105		
Salal	J & K	690		
Tanakpur	Uttarakhand	94.2		
Chamera-I	H.P.	540		
Uri-I	J & K	480		
Rangit	Sikkim	60		
Chamera-II	H.P.	300		
Dhauliganga	Uttarakhan	280		
Dulhasti	J & K	390		
Teesta-V	Sikkim	510		
Sewa-II	J & K	120		
Chamera-III	H.P.	231		
Chutak	Ladakh	44		
Teesta Low Dam-III	West Bengal	132		
Nimoo-Bazgo	Ladakh	45		
Uri-II	J & K	240		
Parbati-III	H.P	520		
Teesta Low Dam-IV	West Bengal	160		
Kishanganga	J & K	330		
Wind Power Project in Jaisalmer	Rajasthan	50		
Tamil Nadu Solar Project	Tamil Nadu	50		
Indirasagar*	M.P.		1000	
Omkareshwar*	M.P.		520	
Sanchi SPP*	M.P.		30	
Floating Solar PV, Unit-D (In the Reservoir of Omkareshwar Project)*	M.P.		88	
Kalpi SPP**	Uttar Pradesh		65	
Ground mounted SPP in Central University of Rajasthan, Ajmer***	Rajasthan		0.70	
	TOTAL	5551.20	1681.70	
	GRAND TOTAL	7232.90	MW	

<sup>#</sup> NHPC has also installed 4084.34 KWp Rooftop grid connected solar power plants in its PS / CO.

<sup>\*</sup> Joint venture between NHPC and Govt. of Madhya Pradesh.

<sup>\*\*</sup> Joint Venture between NHPC and Govt. of Hading Fridassin.

\*\* Joint Venture between NHPC and Govt. of Uttar Pradesh. Project fully commissioned on 29.03.2024.

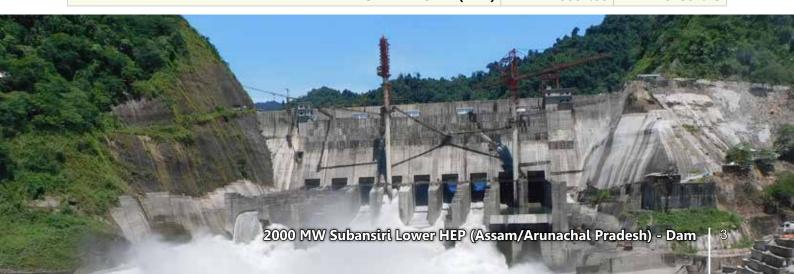
\*\*\* Project synchronization with state grid w.e.f. 14.08.24 and started infusion of energy to CURAJ (Central University of Rajasthan, Ajmer Project inaugurated on 05.09.24 by Hon'ble Governor, Rajasthan.

#### **POWER STATIONS COMMISSIONED ON DEPOSIT/TURNKEY BASIS**

Power Station	UT/State/Country	Capacity (MW)
Abroad		
Devighat	Nepal	14.10
Kurichu	Bhutal	60.00
India		
Kalpong	Andaman & Nicobar Islands	5.25
Sippi	Arunachal Pradesh	4.00
Kambang	Arunachal Pradesh	6.00
	TOTAL	89.35

#### **PROJECTS UNDER CONSTRUCTION**

		Capacity (MW)		
Project	UT/State	Own	Project Cost (In Cr.)	
(A) NHPC - Own		-		
Hydro				
Parbati-II	H.P.	800	12160	
Subansiri Lower	Arunachal Pradesh	2000	21247.54	
Dibang Multipurpose	Arunachal Pradesh	2880	31876.39	
	Sub Total	5680	65283.93	
Solar				
1000 MW CPSUs scheme Solar PV Power Proj	ect(s) anywhere in India			
600 MW	Gujarat	600	4295.63	
300 MW	Rajasthan	300	1731.57	
100 MW	Andhra Pradesh	100	577.20	
Ground Mounted Solar Power Project, Ganjam	Odisha	40	151.74	
Floating Solar Power Project, West Kallada	Kerala	50	259.72	
200 MW Grid connected Solar PV Project (600 MW Solar Park at Khavda), Stage- I	Gujarat	200	929	
	Sub Total	1290	7944.86	
	Total- A (Own)	6970	73228.79	
(B) JVs / Subsidiaries				
Hydro				
Teesta- VI	Sikkim	500	5748.04	
Rangit- IV	Sikkim	120	938.29	
Ratle	J&K	850	5281.94	
Pakal Dul	J&K	1000	12670	
Kiru	J&K	624	5409	
Kwar	J&K	540	4526.12	
Sub T	otal (JVs/Subsidiaries)	3634	34573.39	
	GRAND TOTAL (A+B)	10604.00	107802.18	



#### **PROJECTS UNDER SURVEY & INVESTIGATION**

Project	UT/State	Installed Capacity (MW)	Remark
(A) NHPC - Own			
Hydro			
Dulhasti Stage-II	UT of J&K	260	
Garba Tawaghat HEP	Uttarakhand	630	
Kamala HEP	Arunachal Pradesh	1720	MOA signed between Govt. of Arunachal Pradesh and NHPC Ltd. on 12.08.2023. DPR submitted to CEA on 22.10.2024.
Subansiri Upper HEP	Arunachal Pradesh	1605	MOA signed between Govt. of Arunachal Pradesh and NHPC Ltd. on 12.08.2023. All 14 no of Pre-DPR chapters have been submitted & out of which, 6 no of Clearances have been obtained.
West Seti	Nepal	800	DPR of the project forwarded for appraisal on 18.10.2024.
	Sub Total	5015	
<b>Pump Storage Projects</b>			
Savitri PSP	Maharashtra	1800	Revised MoU has signed with Deptt. of Water Resource, Govt. of Maharashtra on 03.09.2024. DPR is under preparation.
	Sub Total	1800	
	Total (A) - Own	6815	
(B) NHPC - JVs / Subsidiaries	Pump Storage Projects		
Indirasagar Omkareshwar PSP (On Stream)	Madhya Pradesh	640	Clearance on Hydrology, Power Potential Studies have been accorded by CEA/CWC. Further Chapter on Transmission Line along with Site specific seismic studies have been submitted to concerned divisions. Different chapters of Pre-DPR are under various stages of preparation.
Rajupalem PSP		800	Kamalapadu PSP has been replaced by Rajupalem PSP by JV partner APGENCO JV agreement signing was concluded on 27.08.2024 in presence of Honble Chief Minister of Govt of Andhra Pradesh and CMD
Yaganti PSP	Andhra Pradesh	1000	NHPC Ltd. Rajupalem PSP is included in JV agreement in PHASE-I development of PSPs in Andhra Pradesh. Feasibility Study completed. Further, DPR is under preparation.
	Total (B) - JVs	2440	
	Total (A+B)	9255	

#### **PROJECTS UNDER CLEARANCES / APPROVAL**

Project	UT/State	Installed Capacity (MW)	Clearance Pending as on 31.08.2024
(A) NHPC - Own	-	1 7 ,	
Hydro			
Teesta- IV	Sikkim	520	FC-II
Sawalkot	J&K	1856	Defence, FC-I & II, EC
Dugar	Himachal Pradesh	500	FC-I & II, EC
Uri-I Stage-II	J&K	240	FC-I & II, EC, IWT
	Sub Total	3116	
Solar			
200 MW Grid connected Solar PV Projects (600 MW Solar Park at Khavda), Stage-III	Gujarat	200	Under Tendering Process
100 MW Floating Solar Project at Rengali Reservoir	Odisha	100	Under Tendering Process
	Sub Total	300	
	Total Own (A)	3416	

(B) Projects in Joint Venture				
Hydro				
Kirthai- II	J&K	930	IWT, FC-I & II, EC, IWT	
	Sub Total	930		
Solar				
Mirzapur Solar Project (BSUL, JV with UPNEDA)	Uttar Pradesh	100	PPA, PIB	
Madhogarh Solar Project (BSUL, JV with UPNEDA)	Uttar Pradesh	45	PPA, PIB	
Solar Park	Solar Park			
Jalaun Ultra Mega Solar Park, 1200 MW (BSUL, JV with UPNEDA	Uttar Pradesh	-	PIB	
	Sub Total	145		
	Total J.V (B)	1075		
	Grand Total (A+B)	4491		

#### **NEW INITIATIVES BY NHPC**

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Project	Country/ State	Installed Capacity (MW)	Remarks
A) Hydro Projects in Nepa	Ĺ		
Phukot Karnali	Nepal	624	MoU between NHPC and VUCL exchanged on 01.06.2023 for development of Phukot Karnali Project. Further, Review of DPR submitted to VUCL on 30.03.2024. Installed Capacity revised from 480 MW to 624 MW, as per Review Report of DPR submitted to VUCL.
SR 6	Nepal	480	After submission of Inception Report on 15.06.23, the same was accepted by IBN, Nepal on 04.09.23. DPR is under preparation.
	Sub Total	1104	
B) Hydro (Indicated by MOP)			
Siang Lower	Arunachal Pradesh	2700	
Siang Upper Multipurpose Project	Arunachal Pradesh	11200	PFR submitted on 30.12.22
	Sub Total	13900	
C) Pump Storage Plants			
Longtharai PSP	Tripura	800*	Tripura Power Generation Limited vide its Letter dated 20.12.2023 has conveyed the allotment of 04 nos. Pumped Storage Projects to NHPC Limited by the Government of Tripura for detailed Survey & Investigation Works and their subsequent Implementation based on their techno-commercial viability.  Consultant has been appointed for preparation of PFR of Longtharai PSP in July 2024. PFR is under preparation.
Kuppa PSP	Gujarat	900*	PFR of Kuppa PSP has been prepared and submitted to "Energy and Petrochemical Department," Govt. of Gujarat on dated 31.08.2024. A Presentation Meeting on PFR of Kuppa PSP was held between NHPC & Department of Energy & Petrochemicals, Govt. of Gujarat at Gandhinagar on 10.10.24 for its way forward.
Kengadi PSP	Maharashtra	600	PFR submitted to Govt. of Maharashtra on 22.11.2023. Revised MoU has signed with Deptt. of Water Resource, Govt. of Maharashtra on 03.09.2024.
Kalu PSP	Maharashtra	1150	Revised MoU has signed with Deptt. of Water Resource, Govt. of Maharashtra on 03.09.2024.  Consultant has been appointed for preparation of PFR of Kalu PSP in July 2024. PFR is under Preparation.
Jalond PSP	Maharashtra	2400	MoU signed with Deptt. of Energy, Govt. of Maharashtra on 06.06.2023.
Masinta PSP at Deogarh (Up-Stream of Rengali Reservoir)	Odisha	1000	PFR submitted to GRIDCO, Govt. of Odisha on 31.08.24. SWC (Single Window Clearance) of Govt. of Odisha accorded permission for preparation of DPR of Masinta, PSP on 14.10.24. A Presentation meeting between NHPC & GRIDCO on PFR of Masinta PSP (1000MW) along with its way forward was held on 29.10.24.GRIDCO issued letter for DPR preparation on dated 30.10.24.
Sikaser-Gariaband	Chhattisgarh	1000	Evaluation study completed.
	Sub Total	7850	
	Grand Total (A+B+C)	22854	

## SUBSIDIARIES / JOINT VENTURES

- NHDC Limited JV with Govt of Madya Pradesh.
- Chenab Valley Power Projects
   Limited JV with JKSPDC in UT of J&K.
- Ratle Hydroelectric Power
   Corporation Limited Incorporated
   with NHP & JKSPDC holding equity
   share of 51% & 49% respectively. The
   JVC will implement 850 MW Ratle HEP
   in UT of J&K.
- Lanco Teesta Hydro Power Limited -Wholly owned subsidiary of NHPC for Teesta -VI HEP (500 MW) in Sikkim.
- Jal Power Corporation Limited-Wholly owned subsidiary of NHPC for Rangit-IV HEP (120 MW) in Sikkim.

- NHPC Renewable Energy Limited (NREL)- Wholly owned subsidiary of NHPC for development of Renewable Energy, Small Hydro and Green Hydrogen based business.
- Bundelkhand Saur Urja Limited JV with UPNEDA
- Loktak Downstream Hydroelectric Corporation Limited - JV with Govt. of Manipur
- National High Power Test Laboratory Pvt. Limited - JV with NTPC, PGCIL, CPRI and DVC.
- Proposed JV in Odisha with Green Energy Development Corporation of Odisha Ltd. (GEDCOL) with NHPC & GEDCOL holding equity share of 74% & 26% for development of 500 MW Floating Solar Power Projects on different water bodies in Odisha.

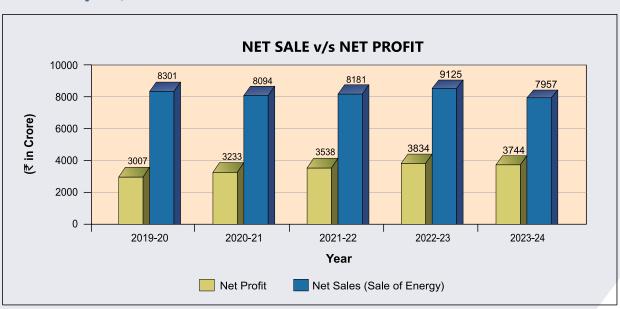


**FINANCIAL HIGHLIGHTS** 

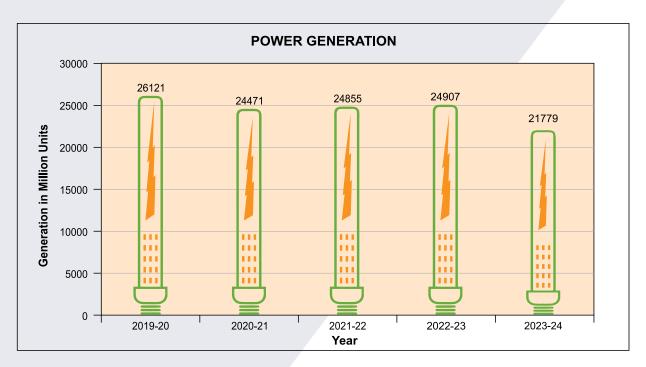


"Started power generation in 1982 with a turnover of ₹ 24 crore and net profit of ₹ 7.68 crore."

"Listed on Indian bourses - BSE & NSE w.e.f. 1<sup>st</sup> September 2009 after successfully concluding its IPO worth over ₹ 6000 crore."



#### **POWER GENERATION**



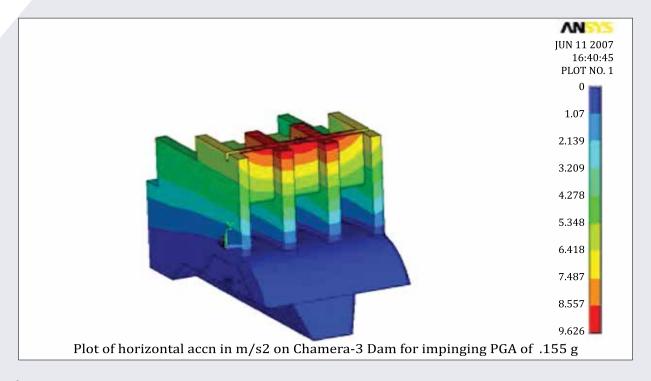


- Planning, Investigation, Design & Engineering and Execution of
- Hydroelectric Projects from concept to commissioning.
- Operation, Maintenance Renovation and Modernization & Dam safety evaluation.
- Development of Solar and Wind Power projects.
- Real time monitoring and alert generation by master control room as early warning system for hydropower developers.

#### **DESIGN & ENGINEERING**

Design & Engineering is a major thrust area for NHPC. Its Design division is well equipped with modern design tools and a well trained manpower which handles the planning and design of all componets associated with hydropower projects from concept to commissioning including trouble shooting during construction as well as O&M stages of projects.

NHPC has gathered vast experience in construction of underground structures in the complex Himalayan geology which is used for evolving constructable designs for its own projects as well as for consultancy assignments relating to Design & Engineering of hydro-projects in India & abroad.



### EXPERTISE IN RCC DAM CONSTRUCTION



#### Roller Compacted Concrete (RCC)

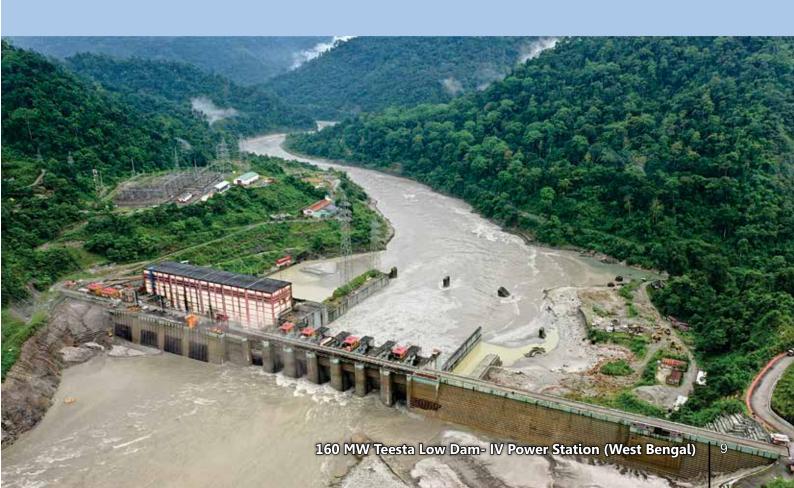
uses construction process, which combines the economical and rapid placing techniques used for fill dams with the strength and durability of concrete. 160 MW TEESTA LOW DAM-IV POWER STATION, WEST BENGAL

First Roller Compacted Concrete (RCC) dam by NHPC and is only the third of its kind in India.

#### **MAJOR FEATURES OF RCC DAM**

160 MW Teesta Low Dam-IV Power Station, West Bengal

Height of Dam (from deepest foundation)	45 m
Total volume of concrete in dam	170000 cum



## GEOLOGICAL AND GEOTECHNICAL CAPABILITIES

NHPC has been pioneering in development of engineering geological and geotechnical appraisal for civil structures related to hydropower/pump storage projects

Complete rockmass characterization for design of all civil structures of hydropower /pump storage projects is the forte of engineering geologists in NHPC

Capability to explore entire spectrum of geological, geophysical, geotechnical and construction material investigations related to hydropower and pump storage projects.

NHPC has a Fully-equipped
Geotechnical lab to carry out
laboratory rock mechanics test.
It is a lab with prestigious
ISO/IEC-17025:2017 accreditation
from National Accreditation Board
for Testing and Collaboration
Laboratories (NABL).
This lab is equipped to conduct all
lab rock mechanic tests required
for Geology chapter of DPR of
hydropower projects.

Sophisticated remote sensing lab with capabilities to generate topographic survey maps from satellite imageries for optimization of layout in inaccessible areas

#### **Geological Studies**

- To plan, investigate and monitor the Geological and Geotechnical, aspects of hydropower/Pump strorage projects in an efficient and scientific manner including preparation of feasibility and detailed project reports(DPR) in accordance with the regulations laid down by the Govt. of India.
- To provide geological recommendations to avoid or to minimize the threat of geological uncertainties (fault, thrust, thick shear zone, poor rockmass condition, high ingress of ground water, rock bursting, squeezing ground condition) in surface and underground space being faced during construction of various civil structures (Dam, Head Race Tunnel (HRT), Powerhouse (surface or underground).
- Timely aquisition of progressive geological and geotechnical data for optimization of layout and modification in rock support system/change in design layout during investigation stage & construction stage respectively.

#### Construction

#### **Materials Studies**

 Capability to conduct in-house field survey, in-situ / laboratory tests and advice on the availability of suitable construction materials studies in terms of quality and quantity vis-a-vis the project requirements and to assess the techno-economic viability of the project.

#### **Geophysical Studies**

- Expertise in geophysical studies for investigation, construction and post construction stages
- Geophysical techniques like Seismic Refraction/Reflection, Resistivity Imaging, liquefaction potential assessment techniques.
- Application of advanced geophysical techniques like High Resolution Seismic Tomography and Resistivity Imaging for investigations in complex geological terrains.
- Tunnel Seismic Prediction for assessment of geological conditions ahead of tunnel face is available only with NHPC in India.

#### **Seismological Studies:**

- NHPC has setup 57 Accelerograph for earthquake monitoring at all its power station and JVs projects covering entire Himalayas.
- A Real Time Seismic Data Centre
  has been established in NHPC for
  continuous online monitoring of all
  power stations. NHPC is the only Power
  utility in the country to have such data
  centre.
- Technical coordination for Site Specific Design Parameter & Seismological Studies like Micro Earthquake/Local Earthquake Tomograph/MT survey for large dams in accordance with NCSDP quidelines & Dam Safety Act, 2021.
- NHPC has developed mitigation plan w.r.t. Reservoir Triggered Seismicity in the Himalayas/liquefaction potential assessment etc.

# SURVEY & INVESTIGATION CAPABILITIES

Investigation is an intrinsic aspect of hydropower project during all stages of its development. NHPC is equipped with various state-of-art technologies/instruments and capable of undertaking various investigations.

#### **Topographical Survey**

- Expertise in carrying out all kinds of survey works required during planning, construction and maintenance of Engineering Projects.
- Capable of producing topographical maps, DEM\DTM from data acquired by conventional as well as photogrammetry and remote sensing techniques.
- Latest survey equipments such as GNSS System, Reflector less Total Station, Long Range 3D Terrestrial Laser Scannerand Latest Softwares.
- More than 50,000 Hectare survey has been carried by Conventional Method.
- Maps of more than 35 projects has been developed by photogrammetry and remote sensing techniques.

#### **Early Warning System**

To minimize damages from floods in the upper Himalayan region, NHPC has developed a Central Control Room and Command Stations for Early Warning System (EWS) catering to hydropower projects of NHPC as well as of other entities. EWS is equipped with automatic instruments (AWLR and telemetry) and has strategic tie-ups with different expert agencies (IMD, CWC, DGRE, NRSC and NGRI).

#### **Exploratory Drilling**

- Equipped with the latest technologies and expert drilling crew for carrying out exploratory drilling works in difficult terrain and remote areas
- More than 40000 meters of drilling/ works completed.
- Expertise in carrying out exploratory core drilling works in river beds.
- Latest Swedish Diamec drilling rigs for doing fast core drilling.

## CONSTRUCTING INDIA'S LARGEST HYDROPOWER PROJECT

#### 2880 MW DIBANG MULTIPURPOSE PROJECT

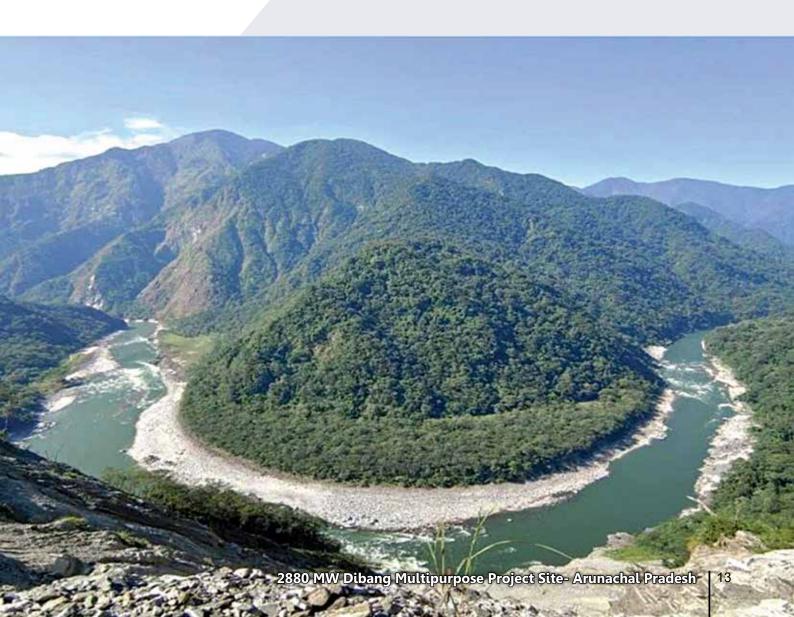
Situated on river Dibang in Lower Dibang Valley District of Arunachal Pradesh, the 2880 MW Dibang Multipurpose Project is being implemented by NHPC. The Project is expected to generate 11,223 MUs (Million Units) of electricity. After construction, the Project will be one of the biggest projects in terms of power generation in India. The Project has been conceived as a Reservoir Scheme for flood moderation and lean season peaking.

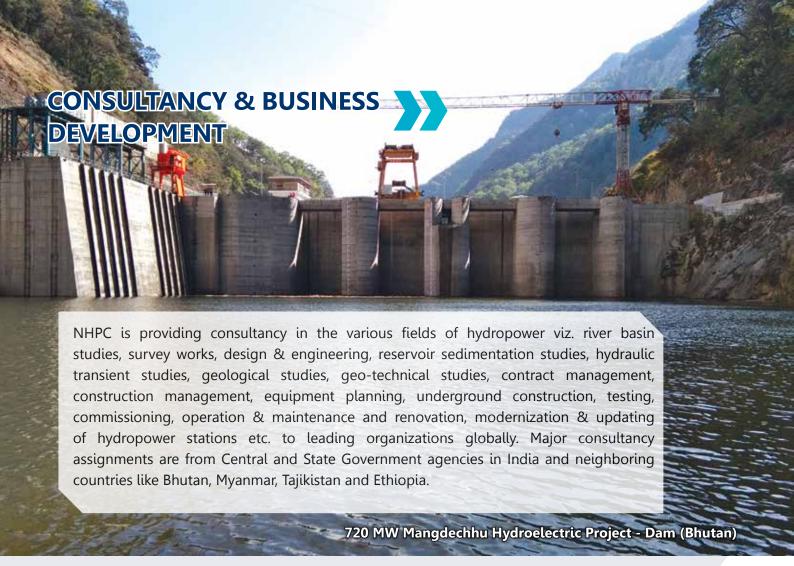
#### **Major Features**

Height of Concrete Gravity Dam from deepest foundation - 278 m (One of the highest dams in India/Asia)

Total volume of Concrete in Dam - 190 lakh cum (approx.)

Large gross storage at MWL (EL 538.00 m) - 3510 MCM





#### **GLOBAL INITIATIVES**



#### **Bhutan**

- Chamkharchhu-I Hydroelectric Project
- Kuri Gongri Basin Projects
- Mangdechhu Hydroelectric Project

#### **Tajikistan**

Varzob Hydroelectric Project

#### Nigeria -

Shiroro Hydroelectric Power Station

#### **Ethiopia**

Ethiopia Electric Power Company

#### Nepal

- West Seti Hydroelectric Project
- SR-6 Hydroelectric Project
- Phukot Karnali Project

#### Myanmar -

- Tamanthi Hydroelectric Project
- Shwezaye Hydroelectric Project

NHPC plans to continue expanding its international operations and help in harnessing the hydro potential available internationally by leveraging its existing relationship and goodwill earned through past consultancy assignments.



- Memorandum of Understanding signed between NHPC and Vidhyut Utpadan Company Limited (VUCL), Nepal for development of Phukot Karnali Hydro Electric Project (624 MW) in Nepal.
- Memorandum of Understanding signed between NHPC and Water Resource department Govt. of Maharastra on 03.09.2024 for the development of Pumped Storage Schemes and other Renewable Energy Source Projects in State of Maharashtra.
- MOU has been signed on 08.08.2022 between NHPC and Investment Board of Nepal for development of West Seti (750 MW) and SR 6 (450 MW) Projects in Nepal.
- Mou signed between NHPC and KSEB on 16.06.2023 for providing Consultancy Services to KSEB for HE Project in the state of Kerala
- MOU has been signed on 23.06.2023 between NHPC and Govt. of Odisha for development of PSP and RE Projects in the state of Odisha.

- MOA signed between Government of Arunachal Pradesh and NHPC on 12.08.2023 for implementation of two Hydro Projects aggregating to 3800 MW (Kamla HEP- 1800MW and Subansiri Upper HEP- 2000MW) in the state of Arunachal Pradesh.
- NHPC and Rajasthan Renewable Energy Corporation Limited (RRECL) signed a Letter of Intent (LOI) for development of 10000 MW Renewable Energy (RE) Projects/ Parks in the state of Rajasthan.
- Promoter's agreement signed between NHPC and Green Energy Development Corporation of Odisha Ltd. (GEDCOL) for development of 500 MW Floating Solar Power Projects in different water bodies in Odisha.
- Government of Tripura has allotted 04 numbers of PSP sites to NHPC for detailed Survey & Investigation Works and their subsequent Implementation based on their technocommercial viability.
- An MOU has been signed between NHPC and ONGC on 15.12.2023 for Cooperation in exploration and development of Pumped Hydro Storage and other Renewable Projects.

# STRATEGIC DIVERSIFICATION IN RENEWABLES

#### **Achievements**

- Bundelkhand Saur Urja Limited (BSUL), a JV has been promoted for development of Solar Power in Uttar Pradesh. 65 MW Kalpi Solar Power Project being implemented by BSUL was fully commissioned on 29.03.2024
- 50 MW Solar Project in Tamil Nadu has been commissioned on 23.03.2018
- NHPC's first Wind Power Project of 50 MW capacity at Jaisalmer, Rajasthan was successfully commissioned on 30.09.2016
- Cumulative 700 MW capacity solar power projects awarded by NHPC Limited as intermediary procurer have been successfully commissioned in Rajasthan"



50 MW Solar PV Project (Tamil Nadu)

#### **Upcoming Projects**

- 40 MW Solar Power Project in Ganjam, Odisha under Solar Park Scheme
- 1000 MW capacity under CPSU scheme has been awarded to NHPC by IREDA & further NHPC has awarded EPC contract on 12.05.2022 for 1000 MW
- 6660 MW Solar, FDRE and Hybrid projects awarded to Developers under REIA scheme through tariff based competitive bidding are under implementation.
- 1200 MW Solar Park Development in Jalaun (UP) through BSUL
- 500 MW Floating Solar Projects in Odisha under UMREPP (300 MW in Phase-I) in JV mode with GEDCOL
- Floating Solar PV, Unit-D (In the Reservoir of Omkareshwar Project) by NHDC, a subsidiary of NHPC Limited
- 50 MW floating Solar Power Project in Kerala









NHPC Limited
(A Government of India Navratna Enterprise)

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